

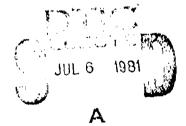
Research Report 1262

THE FY 79 INDIVIDUAL READY RESERVE (IRR) AVIATOR TRAINING PROGRAM

Martin F. Allnutt

ARI FIELD UNIT AT FORT RUCKER, ALABAMA





U. S. Army

Research Institute for the Behavioral and Social Sciences

April 1980

Approved for public release; distribution unlimited.

61 7 05 055

OTTC FILE COPY

U. S. ARMY RESEARCH INSTITUTE FOR THE BEHAVIORAL AND SOCIAL SCIENCES

A Field Operating Agency under the Jurisdiction of the Deputy Chief of Staff for Personnel

JOSEPH ZEIDNER Technical Director FRANKLIN A. HART Colonel, US Army Commander



NOTICES

DISTRIBUTION: Primary distribution of this report has been made by ARI. Please address correspondence concerning distribution of reports to: U. S. Army Research Institute for the Behavioral and Social Sciences, ATTN: PERI-TP, 5001 Eisenhower Avenue, Alexandria, Virginia 22333.

FINAL DISPOSITION: This report may be destroyed when it is no longer needed, Please do not return it to the U. S. Army Research Institute for the Behavioral and Social Sciences.

<u>NOTE</u>: The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (NT. on Date Entered)

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 2. GOVT ACCESSION	NO. 3. RECIPIENT'S CATALOG NUMBER
Research Report 1262 AD-A100	044
	TAPE OF REPORT 4 PERIOD COVERED
4. TITLE (and Subtitle)	
THE FY 79 INDIVIDUAL READY RESERVE (IRR)	VZ/RESCROTT YO
AVIATOR TRAINING PROGRAM	
	6. PEREGRAINS ONS, REPORT-NUMBER
The second of th	S. CONTRACT OR GRANT NUMBER(s)
7, AUTHOR(a)	S. CONTRACT OR GRANT NUMBER(a)
Martin F./Allnutt	11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1
A comment of the second	
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK
US Army Research Institute for the Behavioral	
and Social Sciences, 5001 Eisenhower Ave.,	46 20263739A793 /
Alexandria, VA 22333	
11. CONTROLLING OFFICE NAME AND ADDRESS	TAMAGEORY DATE
Office of Deputy Chief of Staff for	/// Apr 1881980 /
Operations and Plans	12: NUMBER OF PAGES
=	40 (10) 145
Washington, DC 20310 14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office	
	Unclassified
	TEA DECLASSIFICATION/DOWNGRADING
	154, DECLASSIFICATION/DOWNGRADING SCHEDULE
Approved for public release; distribution unlim	ited.
Approved for public release; distribution unlim	ited.
Approved for public release; distribution unlim 17. DISTRIBUTION STATEMENT (of the abstract entered in Black 20, if different	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if differen	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if differen	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if differen	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different to the abstract entered in Block 20, if different entered in Block 20,	t from Report)
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different is supplied to the supplied of the abstract entered in Block 20, if different is supplied in the	t from Report)
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different is. Supplementary notes 19. KEY WORDS (Continue on reverse side if necessary and identify by block num Retraining Refresher Training	t from Report)
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different is supplied to the supplied of the abstract entered in Block 20, if different is supplied in the	t from Report)
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different is. Supplementary notes 19. KEY WORDS (Continue on reverse side if necessary and identify by block num Retraining Refresher Training	t from Report)
17. DISTRIBUTION STATEMENT (of the abetract entered in Block 20, if different is supplied to the second in Block 20, if different is supplied in the second in Block 20, if different is supplied in the second in Block 20, if different is supplied in the second in Block 20, if different is supplied	t from Report)
17. DISTRIBUTION STATEMENT (of the abetract entered in Block 20, if different is supplied and in the supplied	t from Report)
17. DISTRIBUTION STATEMENT (of the abetract entered in Block 20, if different is. SUPPLEMENTARY NOTES 19. KEY WORDS (Continue on reverse side if necessary and identify by block num Retraining Refresher Training Aviation Training Reserve Training Aviation Training Reserve Training	t from Report) ber)
17. DISTRIBUTION STATEMENT (of the abetract entered in Block 20, if different in Supplementary notes 18. Supplementary notes 19. Key words (Continue on reverse side if necessary and identify by block num Retraining Refresher Training Aviation Training Reserve Training Aviation Training Reserve Training 20. ABSTRACT (Continue on reverse of the findings from a survey see	t from Report) ther) ent to 94 Individual Ready
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different in Supplementary notes 18. Supplementary notes 19. Key words (Continue on reverse side if necessary and identify by block num Retraining Refresher Training Aviation Training Reserve Training 20. ABSTRACT (Continue on reverse olds if necessary and identify by block numb This report is of the findings from a survey see Reserve (IRR) aviators who trained with active	thom Report) ber) ent to 94 Individual Ready Army units in the Summer
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different in Supplementary notes 18. Supplementary notes 19. Key words (Continue on reverse side if necessary and identify by block num Retraining Refresher Training Aviation Training Reserve Training 20. ABSTRACT (Continue on reverse olds if necessary and identify by block numbers This report is of the findings from a survey see Reserve (IRR) aviators who trained with active of 1979 and those who trained them. The survey	ent to 94 Individual Ready Army units in the Summer y covered biographical
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different in Supplementary notes 18. Supplementary notes 19. KEY WORDS (Continue on reverse side if necessary and identify by block number and action training Refresher Training Reserve Training 20. ABSTRACT (Continue on reverse with it necessary and identify by block number in the survey of 1979 and those who trained with active of 1979 and those who trained them. The survey information, the manner and extent to training.	ent to 94 Individual Ready Army units in the Summer y covered biographical the apparent skill level
13. SUPPLEMENTARY NOTES 19. KEY WORDS (Continue on reverse side if necessary and identify by block num Retraining Refresher Training Aviation Training Reserve Training 20. ABSTRACT (Continue on reverse olds if necessary and identify by block num Reserve (IRR) aviators who trained with active of 1979 and those who trained them. The survey	ent to 94 Individual Ready Army units in the Summer y covered biographical the apparent skill level

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

4/1/11/11

Research Report 1262

THE FY 79 INDIVIDUAL READY RESERVE (IRR) AVIATOR TRAINING PROGRAM

Martin E. Allnutt

Submitted by: Charles A. Gainer, Chief ARI FIELD UNIT AT FORT RUCKER, ALABAMA

Approved by:
E. Ralph Dusek, Director
PERSONNEL AND TRAINING
RESEARCH LABORATORY

U.S. ARMY RESEARCH INSTITUTE FOR THE BEHAVIORAL AND SOCIAL SCIENCES 5001 Eisenhower Avenue, Alexandria, Virginia 22333

Office, Deputy Chief of Staff for Personnel
Department of the Army

April 1980

Army Project Number 2Q263739A793 **Aviation Training**

ARI Research Reports and Technical Reports are intended for sponsors of R&D tasks and for other research and military agencies. Any findings ready for implementation at the time of publication are presented in the last part of the Brief. Upon completion of a major phase of the task, formal recommendations for official action normally are conveyed to appropriate military agencies by briefing or Disposition Form.

The Army Research Institute (ARI) Field Unit at Fort Rucker, Alabama, provides support to the US Army Aviation Center (USAAVNC) in the area of aviation training research and development. The research reported in this document was performed as part of a project on "Army Aviator Skill Maintenance, Loss and Recovery", sponsored by the Director of Army Training, Deputy Chief of Staff for Operations (DAT-DCSOPS) under Human Resource Need (HRN) 80-4. This work forms part of the overall project, "Human Factors in Training and Operational Effectiveness."

Major Steven Wallace of Headquarters, Reserve Components Personnel and Administration Center (HQ RCPAC) provided considerable help in the organization of the survey.

OSEPH ZEIDTER

Technical Director

THE FY 79 INDIVIDUAL READY RESERVE (IRR) AVIATOR TRAINING PROGRAM

RR	t	F	F

Requirement:

To obtain information about Individual Ready Reserve (IRR) aviators who were retraining at active Army units, the training which they received and any problems that they encountered.

Procedure:

A two-part mail survey was conducted. One part was sent to all the 94 IRR aviators who were retraining, after several years away from military flying, between June and September 1979; the other part was sent to those who trained them. The survey covered biographical information, the manner and extent of training, the apparent skill level of the aviators and possible improvements to the training content and administration of the Program.

Findings:

A majority (60%) of the Reservists were first rated as aviators in the 1968-70 timeframe and had, on average, been away from military flying for nearly seven years. As the extent and manner of the training which they received varied greatly, and consistent data collection was limited, few firm conclusions about their training may be drawn. The Program was popular, though marred by administrative difficulties.

THE FY 79 INDIVIDUAL READY RESERVE (IRR) AVIATOR TRAINING PROGRAM

CONTENTS

Ps	ıg:
INTRODUCTION	1
METHOD	2
Part A - Survey of Reservists	2
RESULTS	3
Part A - Survey of Reservists	3
DISCUSSION	1.3
CONCLUSIONS	14
RECOMMENDATIONS	14
APPEND IXES	
B. Cover letter for Appendix A	15 25 27 35

THE FY 79 INDIVIDUAL READY RESERVE (IRR) AVIATOR TRAINING PROGRAM

INTRODUCTION

The objective of the Individual Ready Reserve (IRR) training program is to retrain and maintain the flying skills of Reserve aviators by attaching them, individually, to active Army units. Some of these Reservists fly regularly for commercial organizations while others have not flown at all for several years. In either case, the training is intended to increase their military flying proficiency so that, in the event of mobilization, they can be integrated rapidly into the active unit as a replacement aviator.

The program started in FY 78 with 28 Reservists being trained that year and expanded in FY 79 when about 350 were trained. Feedback on the effectiveness of the program has been fairly informal, consisting mainly of the occasional after-action report from a unit or a telephone call between the Aviation Officer at the Reserve Component Headquarters (RCLAC) and the individual Reservist.

In July 1979, the Army Research Institute (ARI) Field Unit at Fort Rucker was asked by Forces Command (FORSCOM) and RCPAC to investigate the program and, if necessary, suggest ways in which it might be improved. ARI proposed two lines of research: one, to train a number of Reservists at Fort Rucker (this work is reported separately) and the other, reported here, to survey a sample of Reservists and those who trained them. Both these tasks form part of a more general program on Army Aviator Skill Maintenance, Loss and Recovery which is sponsored by the Deputy Chief of Staff for Operations (DCSOPS) under Human Resources Need (HRN) 80-4. The objectives of the overall program are to predict the nature and timing of flying proficiency loss and devise optimum strategies for its recovery and maintenance.

The more specific objective of the survey reported here was to provide information from a sample of Reservists and Trainers that would prove useful in planning an improved program for FYs 80 and 81. The survey was in two parts:

Part A being of a sample of Reservists and Part B being a sample of those who trained them. The information sought in both parts was as follows:

- a. Biographical
- b. The manner and extent of training.
- c. The apparent skill level of the aviators.
- d. Suggestions as to how the training content and administration of the Program might be improved.

Parts Λ and B are reported separately in the Method and Results sections and jointly in the Discussion, Conclusions and Recommendations sections.

METHOD

Part A - Survey of Reservists

1. The Sample.

The sample surveyed was the 94 Reservists who trained between June and September 1979. This sample was chosen as it was of reasonable size and contained those who had trained fairly recently.

2. The Questionnaire.

The questionnaire contained 54 questions, used both multiple choice and open-ended formats and appears at Appendix A. An accompanying letter from the Director of Training (DCSOPS) (Appendix B) stressed the need for a full and prompt response and promised anonymity to each Reservist.

3. Procedure.

The requirement for the questionnaire to be fielded quickly meant that only preliminary evaluation of proposed items could be accomplished. Six Reservists, who were in the middle of their IRR training, were given one hour semistructured interviews and their responses used in formulating the first draft of the questionnaire. This draft was then discussed with Subject Matter Experts (SMEs) from DCSOPS, FORSCOM, and RCPAC as well as the Reservists who happened to be training at ARI at this time. The questionnaire was mailed to each Reservist at his home address at the beginning of October. No response was received after the first week in November.

Part E - Survey of Trainers

This questionnaire was sent to every unit at which a Reservist who responded to the questionnaire, described in Part A, had been trained. If more than one Reservist had trained at a unit, additional copies were sent.

2. The Questionnaire

The questionnaire contained 24 questions, used both multiple choice and open-ended formats, and appears at Appendix C. A letter from the Aviation Officer of FORSCOM explaining the need for the data was attached to each copy (Appendix D).

3. Procedure

Ten trainers from two locations were interviewed before the questionnaire was written. A draft copy was then submitted to the Aviation Officers of DCSOPS, FORSCOM and RCPAC before the final version was mailed out in mid-December. No response was received after the beginning of February.

RESULTS

In order to aid comparisons, all data have been converted to percentages. Unless otherwise stated, all respondents answered the question.

Part A - Survey of Reservists

1. The Sample.

The 55 Reservists who responded (59% of the sample) had trained in 24 different units at 16 locations. Two had not flown at all during their training and therefore their data were eliminated from the survey.

Of the 53 who flew:

- a. Time Away. The average time since they last flew a military aircraft was 6.8 years (range 1-27 years).
- b. Flight Experience. Their average total military flight experience was 1630 hours (range 500-2500 hours).
- c. Type of Aircraft. The great majority of the respondents carried out their IRR training in the UH-1. The percentages by type of aircraft were:
 - (1) UH-1 85%.
 - (2) OH-58 11%.
 - (3) AH-1 2%.
 - (4) CH-47 2%.
 - d. Previous Experience.
 - (1) First rated as an aviator between 1968-1970 (range 1946-1975) 60%.
 - (2) Held a Standard Instrument Ticket at some time in their career /5%.
 - (3) Had been a USAAVNC-trained Instructor Pilot at some time in their career . 30%.
 - e. Intervening Activities.
 - (1) Had flown as a civilian pilot since leaving the military 49%. (Some of this was extensive, e.g., for oil companies.)
 - (2) Had undergone previous military refresher training 26%. (E.g., IRR in FY 78 or National Guard.)

2. Administration.

- a. Orders. Received orders less than one week before, or after, starting training 60%.
 - b. On Arrival at the Unit.
 - (1) Not expected by the unit 32%.
 - (2) Didn't have a signed flight physical 25%.
 - (3) Didn't have their flight records 43%.
 - (4) Didn't have dogtags 28%.
 - (5) Didn't have complete flight clothing 75%.

3. Training.

a. Amount. The Respondent's report of the number of hours for which they trained in various modes was:

	Number of Respondents	Average (Hours)	Range (Hours)
Aircraft - Day	53	15.9	2-25
Aircraft - Night	32	5.6	1-20
UH1FS	36	9.9	1-30
Static Procedures Trainer	6	4.8	2-20
Ground Instruction	37	11.9	1-75
Programmed Texts	25	13.5	2-40
Other Self-Study	37	14.8	1-45

- b. Type of Missions. The percentage of Respondents by the types of mission which they flew were:
 - (1) Flew only training missions 25%.
 - (2) Flew mostly operational missions 43%.
 - (3) Flew a mixture of the two 32%.

- c. IP Time. Reservist's report on the availability of IPs was:
 - (1) Reporting adequate IP time available 58%.
 - (2) Flew at least one mission with someone other than an IP 66%.

4. Assessment.

- a. Methods Used. The percentage of Respondents and the assessment methods used were:
 - (1) Gradeslip for flight evaluations 68%.
 - (2) Aircraft Systems -10 Test (open book) 83%.
 - (3) Annual written examination 45%.
- b. Self-Evaluation. In an effort to compare self-evaluation of performance on the first and last day of training, Reservists were given a list of maneuvers which included all facets of an Annual Aviator Proficiency and Readiness Test (AAPART) checkride, excluding non-tactical IFR and instrument proficiency and a scale on which to rate their proficiency. The scale and the ratings are given below:

Code Number Description of your performance

- No previous experience of this activity.
- Unable to perform without considerable assistance from the IP.
- 2 Could perform on some attempts, but not consistently.
- 3 Rough or slow, but able to complete the activity.
- Performed at an acceptable level though with some room for improvement.
- 5 Proficient, no additional training needed.

The results were:

	Proficiency at start of this year's program (Code-Group Avg.)	Proficiency at end of this year's program (Code-Group Avg.)	Percent of Reservists who responded to this item
Preflight planning	2.9	4.3	96
Preflight Inspection	3.2	4.7	94

	Proficiency at start of this year's program (Code-Group Avg.)	end of this year's program	
Engine run-up and shut-down	3.1	4.7	92
Radio use (tuning, voice comm)	3.6	4.5	91
Hovering operations (T/O, landing, turns, taxi)	3.8	4.6	94
Normal T/O and approach to landing	3.5	4.8	94
Acceleration and deceleration	3.7	4.5	87
Basic instrument control and maneuvering	3.3	4.2	9,1
Tactical instrument navigation (NDB and Dead Reckoning)	3.2	4.3	49
Simulated systems malfunction			
Straight-in autorotation	3.1	4.3	81
Low-level autorotation	3.2	4.3	74
Autorotation from a hover	3.6	4.5	77
Autorotation with turn	3.2	4.5	60
Hydraulic system malfunction	3.3	4.5	79
Anti-torque failure	2.9	4.2	75
Other system malfunction	3.5	4.3	72
Nap-of-the-Earth (NOE) flight	3.6	4.3	36
NOE navigation	3.8	4.3	34
Internal load operations	3.6	4.5	60
External load operations	3.8	4.3	17
Confined area landing and takeoff	3.2	4.3	74
Pinnacle and slope operations	3.4	4.4	60

5. Expectations.

The Reservists were asked, in an open-ended question, what they had expected to achieve in the Program. The two most common responses were "instrument renewal" and "to re-qualify." 47% felt that their expectations had been fulfilled.

6. Changes in Army Aviation.

In an open-ended question, Reservists were asked what had been the biggest changes in Army aviation since they left active duty. The burgeoning of simulators, Aircrew Training Manuals (ATMs) and Nap-of-the-Earth (NOE) flying, and poor maintenance were cited most frequently.

7. Motivation.

- a. Reasons for Joining the Program. Reservists were asked, in an open-ended question, why they had decided to join this Program. The most commonly cited reasons were:
 - (1) Love of Country.
 - (2) Love of Army.
 - (3) Forerunner to rejoining Active Army.

b. Incentives to Continue in the Program. The percentage of Respondents and how they rated the six factors they were given in each category were:

Factor	Major Incentive	Minor Incentive	Unimportant
Flying	91	9	0
Pride/duty	68	17	15
Being with Active Army	56	27	17
Retirement points	53	40	7
Money	47	45	8
Break from civilian life	40	36	24

c. Prime Motivator. When asked which motivator was most important, "flying" was an almost universal choice.

d. Retirement Points. Reservists were asked about their understanding of the Retirement Points system. They responded as follows:

	% for each Category
Don't understand at all	19
Understand some of the system	49
Understand most of the system	17
Understand the system thoroughly	15

e. Study in Advance. They were also asked whether or not certain factors would provide a sufficient incentive for them to study at home in advance of the training period. They rated the four factors as follows:

Factor	% of those saying "Yes"
Professional interest	94
More flying	87
Money	77
Retirement points	66

8. Future Plans.

- a. Percentage of the Respondents who intend to continue with this Program. (Others have retired, been promoted to Field Grade or rejoined 83% the Active Army.)
 - b. Those prepared to train for 2 four-day weekends each year 79%.
- c. Those reporting that they did <u>not</u> have adequate information 45% about their nearest Reserve Unit.

9. General Comments on the Program.

To open-ended questions, the great majority of Respondents made very favorable comments about the Program. Most of the suggestions for improvement were administrative ones and stressed the need for orders to be issued early, for advance information and for good communication between RCPAC, the unit and the individual. Many Respondents emphasized the need for a clear statement of objectives. Other suggestions which were made by a few of the Reservists were:

a. That more incentives for participation should be offered; for example, a transition course to another aircraft or the freedom to choose a location of their choice.

- b. That DA should, for this Program, accept FAA ratings and flight physicals.
 - c. That close links should be established with the Civil Air Patrol.

Part B - Survey of Trainers

1. The Sample.

- a. A total of 17 responses was received from 14 of the 24 units at which the Reservists described above had trained.
 - b. The 17 Respondents were:

(1)	SIP or IP	12
(2)	Commander	3
(3)	Aviation Officer	1
(4)	Onerations Officer	1

2. Planning.

- a. Overall Direction.
- (1) Those who received no guidance whatsoever about the Program 53% from a higher command.
- (2) Those who received only very general direction such as, 25% "familiarize them with current doctrine" or "bring them up to proficiency."
 - b. Advance Information.
- (1) Those who didn't receive $\underline{\text{any}}$ advance information about the -65% Reservists.
 - (2) Those who did any planning prior to the Reservist's arrival 12%.
- c. The Trainers were asked to rate the desirability of various pieces of advance information, assuming of course, that they knew the name, rank and dates of attachment of the Reservist. The ratings, as a percentage, were:

Information Required Prior to Reservist's Arrival

	Extremely Useful	Nice to Have	Not Needed
Time away from military flying	76	18	6
Aircraft in which qualified	64	30	6

	Extremely Useful	Nice to Have	Not Needed
Whether instrument qualified	64	18	18
Total military flight hours	47	47	6
Amount of intervening civilian flying	35	59	6
Whether NOE qualified	35	52	13
Whether IP qualified	24	52	24
Age	18	30	52

3. Training.

a. IP Availability. Trainers were asked whether or not adequate IP time for Reservists' training had been available. 47% said that it had.

b. Re-acquisition of Skills. Trainers were asked whether or not certain maneuvers had been practiced and whether or not the Reservist re-acquired the skill easily. Their opinions, as a percentage, are shown in the following table:

	Skill (re)acquired easily	Skill (re)acquired only with difficulty or not at all	
Preflight Inspection	88	6	6
Engine run-up or shutdown	94	0	6
Radio use (tuning, voice)	100	0	0
Hovering operations	100	0	0
Normal Takeoff and approach	81	19	0
Acceleration and Deceleration	81	19	0
Basic instrument control	37	51	12
Tactical instrument navigation (NDB and Dead Reckoning)	6	37	57

	Skill (re)acquired easily	Skill (re)acquired only with difficulty or not at all	Maneuver practiced very in- frequently or not at all
Simulated systems malfunction			
Straight-in (standard) autorotation	57	37	6
Low level autorotation	51	43	6
Autorotation from a hover	57	37	6
Autorotation with turn	43	51	6
Hydraulic system malfunction	63	37	0
Anti-torque failure	31	57	12
Other system malfunction	43	37	20
Nap-of-the-Earth (NOE) maneuvering	12	12	76
NOE navigation	6	13	81
Maximum load operations	19	19	62
Confined area landing and takeoff	63	25	12
Pinnacle and slope operation	57	24	19
Night flight	43	6	5 1.

c. Training Aids. In an open-ended question, they were asked what other training aids they would have liked. Several reported that they would have liked up-to-date video films on pre-flight and flight maneuvers, while others wanted more programmed texts.

4. Assessment.

a. Methods Used. The percentage of Trainers reporting the assessments which the Reservists had received was:

(1)	AAPART "hands-on" contact checkride	94%
(2)	Aircraft Systems -10 Test (open book)	100%
(3)	Annual Written Examination	35%

b. Candidate Methods. The Trainers were asked, in open-ended questions, to comment on two candidate methods of describing the checkride performance

of an aviator who might be well below the AAPART contact checkride standard. In <u>Method A</u>, the Evaluator gives an estimate of the number of further hours required before the candidate would pass the checkride. In <u>Method B</u>, he uses a six-point Descriptor Scale (in Appendix C) to describe the Reservist's performance. Method B was preferred to Method A with many Trainers opining that a combination of the two methods, plus a percentage score, would be the optimum technique.

c. Record of Progress. 71% of Trainers reported that an ATM folder was kept of the Reservist's progress; the remainder kept some other form of record.

d. Current Location of Records.

(1)	With Reservist	41%
(2)	At RCPAC	35%
(3)	Retained by Unit	18%
(4)	Destroyed	6%

5. Motivation.

The descriptions of the Reservists' motivation, in response to an openended question, were:

(1)	"Outstanding" or "very high"	76%
(2)	"Fair" or "casual"	12%
(3)	"Poor" or "no comment"	12%

6. Future Plans.

The most frequent responses to an open-ended question as to how they, personally, would use the Reservists in the event of mobilization were:

- (1) "Integrate them fully into the unit."
- (2) "As co-pilots behind the FEBA."
- (3) "Very carefully!"

7. Trainers' Suggestions for Improvement.

The Trainers had a number of suggestions for improving the Program:

- a. Each Reservist and unit should receive a clear statement of the objectives of the Program.
 - b. Adequate advance notice should be given to the unit involved.
- c. The unit should be charged with contacting the Reservist in advance of his training period in order to discuss any administrative difficulties.
- d. Reservist should be sent appropriate publications for study in advance of the training period.
 - e. The minimum training period should be two weeks.

DISCUSSION

Although both the samples surveyed, and particularly the Trainer's, were small, the response rate (59% for the Reservists) was good. In drawing conclusions from the data, it has been assumed that the respondents were truly representative of the population, although it might have been the case that those who did not enjoy their training did not respond, so skewing the data towards a more favorable position. Also, the memory of those who responded several months after completing training may have been distorted. These caveats should be borne in mind when the conclusions are considered, as should the fact that the great majority of respondents were UH-1 operators (85%), so that those responses which are aircraft specific are valid only for the UH-1. Finally, as not all the Trainers who trained these particular Reservists responded, two slightly different samples are being described. However, this is considered to be of minor importance as, overall, the opinions of the Reservists and Trainers were in accord.

The biographical data indicate that the IRR population is heavily laden (60%) with aviators who were first rated in the 1968-1970 (Vietnam) time-frame. There is a considerable spread of experience, about 30% of the population having previously been IPs and about 50% having intervening civilian flying experience, some of it considerable.

Both surveys confirmed that the Program suffered from a number of administrative problems, specifically, the late arrival of orders and the fact that necessary information did not reach the unit actually conducting the training. The requirement for a clear statement of the objectives of the Program was also apparent as the expectations of many Reservists, particularly with regard to renewal of their instrument qualifications, did not match those of FORSCOM. Action to rectify these deficiencies has already been initiated.

The amount and nature of the training conducted in the units varied widely. One of the determining factors was probably the availability of IPs, both Reservists and Trainers agreeing that only about half of the Reservists received adequate IP time. For the majority of Reservists, the standard grade slip was the only form of inflight assessment, while an open book UH-1

Systems -10 test was the main measure on the ground (less than half completed the Annual Written Examination). Trainers opined that a more comprehensive method for measuring performance on the checkride would be helpful. Both Reservist and Trainer ratings of performance on various flight maneuvers provided no surprises. Basic skills were recovered easily and the maneuvers found to be more difficult to re-acquire, such as basic instruments and certain emergency procedures, are those which would be predicted from active Army experience.

Support for the Program and for its continuation was high, with flying itself being the prime motivator. The survey of Reservists was conducted before the Iranian crisis; it is interesting to speculate as to whether certain opinions would be different today. Professional interest alone appears to provide adequate motivation for Reservists to study in advance of their training, but of course, saying and doing are not necessarily synonymous.

CONCLUSIONS

Both parts of a survey of a sample of Reservists who trained in FY 79 and those who trained them produced similar findings, namely that:

- a. There was great variety in the amount and manner of the training given to the Reservists.
- b. The variety of training, coupled with limited assessment procedures and data collection, make it hard to draw firm conclusions as to the minimum amount and manner of training necessary to produce an adequate mobilization asset. Greater standardization and data collection are necessary if valid predictions are to be made.
- c. Although there was enthusiastic support for the Program, this was dampened by administrative difficulties.

RECOMMENDATIONS

The following recommendations were made when the results of the Program were being briefed. Action to implement them has already been taken.

- a. A clear statement of the objectives and requirements of the Program should be sent to all Reservists and those responsible for their training.
- b. A standard training and assessment package should be supplied to all units where Reservists are to be trained in FY 80.
- c. Data from these units should be collected and collated so that a data base for making predictions on future training requirements may be established.
- d. The administrative problems which currently degrade the effectiveness of the Program should be rectified.



DEPARTMENT OF THE ARMY

US ARMY RESEARCH INSTITUTE FIELD UNIT P.O. BOX 476 FORT RUCKER, ALABAMA 36362

PERI-OA

Dear

IRR Aviation Counterpart Training Program 1979

Your prompt, honest and carefully thought-out responses to the attached questionnaire will enable us to design a better program in 1980. If you require clarification on any issue I can be contacted on (205) 255-6980.

Please do give it your immediate attention.

Yours sincerely,

Dr. Martin F. Allnutt

IRR AVIATOR COUNTERPART TRAINING PROGRAM 1979

(RCS EXEMPT: 7-2Y, AR 335-15)

•	BIOGRAPHICAL							
1.	Last Name & Initials				2.	Rank		
3.	Unit with which you train	ned					* *	
4.	Location							
5.	From (Day/Mo)		Until	(Day/Mo)				
6.	Which aircraft did you f	ly on this	assignment	?	 .			
								
	BACKGROUND	•						
7.	When were you first rate	d as an Arm	y aviator?				(Mo/Y	r)
8.	When did you last fly in (Discounting any IRR ass	the <u>Active</u> ignments)	Army?				(Mo/Y	r)
9.	What are your total mili	tary flight	hours?		(T	o neare	st hundr	ed)
10.	Have you ever held a (a) standard	instrument	ticket	Yes		No	
	(b) tactical	instrumen	t ticket				
		j	Yes	No				
11.	Have you ever been an:	SIP						
		IP						
		יינים די						

ARI

		Yes	°
(a)	Taken part in any previous IRR flying programs? If 'Yes', please say where and when.		
		Yes N	0
(b)	Flown as a civilian pilot? If 'Yes', please describe the aircraft type and general mission and give your total civilian hours since leaving the Active Army (to nearest hundred).		
(c)	Taken part in any other aviation-related activities? (i.e. for work, study or hobby) If 'Yes', please describe.	Yes N	0
This	Assignment		
When	did you know that you were going on this assignmen	t?	(Day
When	did you receive your orders?	Yes	(Day/Mo
	ou receive adequate advance information out your assignment? , what additional information would you		

17

ARI

16:	Approximately how	many hours did	you train with/in:	/.	1
		(a) Aircraft -	- day	`	\
		(b) Aircraft -	- night		
		(c) UH1-FS	~ _		
		(d) Static pro	ocedures trainer		
		(e) Ground ins	struction		·
		(f) Programmed	i texts	<u>\</u>	
		(g) Other self	-study		
	(c) Mostly	ining training with a operational with with someone other	few operational mis a few training mis mer than an IP or IF a? (a) You (b) Your IP	sions	No
20.	Was your IP able to If 'No', please		quate amount of time	to your trains	lng? Yes
21.		slide-mediated	dditional training training, films, etc	Yes	No

	iia C	dlag	=			suie T:							, , , ,	p.		O L UIR					
		(a)	ın	tne	e a11		(1)		race	sli	.p				-	-,				-	
							(2)		her						~					•	
							(3)					.1								-	
								11	. 0	tnet	, ,	orea	se c	lesci	100	е.					
		(b)	On	the	gro	ound	: (1)	An	nua 1	wri	lt			4						
	•		٠				(2)	-1	0 Te	st									- .	
							(3)	0t	her										_	
									If	'Ot	her'	, p	leas	e de	SC:	ribe	•				
. Wh	nat	did	you	ехр	ect	to a	chi	evc	in	thi	в уе	ar'	s pr	ogra	m?						
. We	ere If	thes 'No'	e ex , pl	cpec Leas	tati e ex	ons plai	ful:	f11	led	?	•	Yes_				_ N	0				
Wh sin	nat nce	to you	ou h left	ave the	bee Ac	n th	e b:	igg ny?	est 	cha	nges	ín	Arm	y av	lat	:1on	tra	ining	3		
	 .								 -							,				·	
Wh	nat	sugge	esti	ons	do	you	have	a :	s to	ho	w th	e II	RR t	rain	ing	pr	ogran	n mig	ht be	e impr	:ov

ARI

Self-Evaluation

In this section, please rate your performance on the listed activities on the day on which you started this year's program as compared to the day which you completed it. If you did not perform a particular activity during this year's training please put a checkmark in the column marked "did not perform".

Please put the code number which best describes your ability level at that time in the box provided.

Code number		Description of your performance
0	_	No previous experience of this activity.
1	-	Unable to perform without considerable assistance from the IP.
2	-	Could perform on some attempts, but not consistently.
3	-	Rough or slow, but able to complete the activity.
4	-	Performed at an acceptable level though with some room for improvement.
5		Proficient, no additional training needed.

		Proficiency at start of this year's program	Proficiency at end of this year's program	Did not perform
27.	Preflight planning .			
28.	Preflight inspection			
29.	Engine run-up and shut-down			
30.	Radio use (tuning, voice comm)			
31.	Hovering operations (T/O, lndg, turns, taxi)			
32.	Normal T/O's and approaches to landings			
33.	Accelerations and Decelerations			
34.	Basic instrument control and maneuvering			

APPENDIX A

		Proficiency at start of this year's program	Proficiency at end of this year's program	Did not
35.	Tactical instrument navigation. (NDB & Dead Reckoning)	year s program	year s program	periorm
36.	Systems malfunctions and non- standard maneuvers:			
	a. Straight-in autorotation			
	b. Low level autorotation			
	c. Autorotation from a hover			
	d. Autorotation with turn			
	e. Hydraulic system malfunctions			
	f. Antitorque failure			
	g. Other system malfunctions			
37.	Nap-of-the-Earth (NOE) flight			
38.	NOE Navigation			
39.	Internal load operations			
40.	External load operations	· · · · · · · · · · · · · · · · · · ·		
41.	Confined area landings & T/O's			
42.	Pinnacle & slope operations			
	Incentives			
43.	Please say why you decided to join t	this program:		
44.	How would you describe your current Please check one:	understanding of \underline{R}	etirement Points:	
	a. Do not understand at all	(>	
	b. Understand some of the system	(
	c. Understand most of the system	(
	d. Understand the system thoroughly	, (<u>.</u>)	

		Major Incentive	Minor Incentive	Unimporta
a.	Flying			
ъ.	Retirement points			
c.	Money			
d.	Being with the Active Army			
e.	Break from civilian life			
f.	Pride		· · · · · · · · · · · · · · · · · · ·	
g.	Other			
	If 'Other', please describe.			
to	ch of the incentives listed in 45 do			
Pleavie	ch of the incentives listed in 45 do you? ase indicate if the following incent ation material in your own time befor immediate response may be, "How mu d the type(s) of incentive which you	tives would persone coming on acidn'? The object	suade you to ctive duty. ct of the que	study (Obviousl
Pleavie	ase indicate if the following incent ation material in your own time before r immediate response may be, "How mu	tives would persone coming on acidn'? The object	suade you to ctive duty. ct of the que	study (Obviousl
Pleavie	ase indicate if the following incent ation material in your own time before r immediate response may be, "How mu	tives would persone coming on acidn'? The object find attraction	suade you to ctive duty. ct of the que ve).	study (Obviously
Pleaving fine	ase indicate if the following incent ation material in your own time befor immediate response may be, "How mu d the type(s) of incentive which you	tives would persone coming on acidn'? The object find attraction	suade you to ctive duty. ct of the que ve).	study (Obviously
Pleaving fine	ase indicate if the following incent ation material in your own time befor immediate response may be, "How mu d the type(s) of incentive which you Promise of additional flying	tives would persone coming on acidn'? The object find attraction	suade you to ctive duty. ct of the que ve).	study (Obviously
Pleaving fine	ase indicate if the following incent ation material in your own time befor immediate response may be, "How m d the type(s) of incentive which you Promise of additional flying Retirement points	tives would persone coming on acidn'? The object find attraction	suade you to ctive duty. ct of the que ve).	study (Obviously
Pleavilyour find	ase indicate if the following incent ation material in your own time befor immediate response may be, "How mu di the type(s) of incentive which you Promise of additional flying Retirement points Money	tives would persone coming on acidn'? The object find attraction	suade you to ctive duty. ct of the que ve).	study (Obviously
Pleavilyout find a. b. c. d.	ase indicate if the following incent ation material in your own time befor immediate response may be, "How mud the type(s) of incentive which you promise of additional flying Retirement points Money Professional interest	tives would persone coming on acidn'? The object find attraction	suade you to ctive duty. ct of the que ve).	study (Obviously

week-e	you be able and willing tends during the year? 'No', please explain.	o train for two four-day	YesNo
Do you its st		on about your nearest Reser	
	am. If so, please make th	nts which you wish to make a nem here and continue on a s	

Thank you very much for your cooperation which, we hope, will lead to a better training program for you and your colleagues.

Please check to see that you haven't missed any questions and then place this in the stamped, addressed envelope and mail it as soon as possible.

Thank you!

DEPARTMENT OF THE ARMY

OFFICE OF THE DEPUTY CHIEF OF STAFF FOR OPERATIONS AND PLANS WASHINGTON, D.C. 20310

REPLY TO

DAMO-TRI-PD

27 SEP 1979

SUBJECT: IRR Aviator C/Part Training Program

TO: Particular Reservist

- 1. It is my earnest desire that this important program provide you with the best training possible in the time available. To assist me in this endeavor while effecting immediate improvements to this year's training of IRRs, it is imperative that I receive speedy and accurate evaluation of the year's training activities.
- 2. In this vein I have tasked the Fort Rucker Unit of the Army Research Institute with conducting a survey of all those reservists who trained this year. To benefit from your comments as rapidly as possible, I urge you to complete the attached questionnaire in a thorough and timely fashion and return it to ARI so they may begin implementing recommended changes. Your frankness and honesty in responding to the questionnaire are of paramount importance; you will not be identified by your responses to anyone other than the scientists who analyze the questionnaire.
- 3. Improvements which come about in training IRRs will be based on your suggestions; it is crucial all addressees respond as requested.

FOR THE DEPUTY CHIEF OF STAFF FOR OPERATIONS AND PLANS:

JAMES C. SMITH Major General, USA

Janus & Smi

Director of Training

IRR AVIATION COUNTERPART TRAINING

QUESTIONNAIRE FOR TRAINERS

A prerequisite for improving this program is to obtain adequate feedback about what happened this year. Questionnaires have already been sent to all the Reservists who took part in this year's program and now information is sought from those who planned and executed their training program.

In addition to comments on the feasibility of the program and practical suggestions as to how it may be improved, we are also seeking first-hand professional opinion on some fundamental issues. For example, how to describe the skill level of a returning aviator in standardized terms that are meaningful to all IPs. Another task is to try to find out which skills are (re)acquired only with great difficulty so that research into training aids may be concentrated in these areas.

It is appreciated that those to whom this questionnaire is addressed already have a high workload. Although completing a questionnaire temporarily increases this workload, a better designed and administered program should reduce future workload as well as providing greater satisfaction to both trainer and trainee.

Your prompt, honest and carefully thought-out responses will be both appreciated and acted upon. If you require clarification on any question, I can be contacted on AUTOVON 558-6980.

Martin F. Allnutt, Ph.D. Technical Team Manager

INDIVIDUAL READY RESERVE (IRR) AVIATION COUNTERPART TRAINING

(RCS EXEMPT: 7-2Y, AR 335-15)

JUNE THRU SEPTEMBER 1979

QUESTIONNAIRE FOR TRAINERS

Bac	kground		
1.	Last name & initials		2. Rank
3.	Unit & Location		
4.	Current Duty Assignment		
5.	What was your role in this	year's IRR program?	
		Unit Commander	
		Aviation Staff Officer	
		Unit Training Officer	
		SIP	
		IP	
		UT	
		Other (please specify)	
6.	How many Individual Ready	Reservists did you personally	train this year?
Pla	nning		
7.	What do you understand to	have been the objective(s) of	this year's IRR program?

-	
	rom which command level (RCPAC, Post, Division, Battalion, your Unit Commandetc.) did you receive this guidance?
	What advance planning were you able to do?
	Who in your organization, by duty position, planned the training program?
	What advance information about the Reservists did you receive?

13.	descr infor	ibe yo mation	our attitude n about him?	eservists' training progr regarding the need for t (It is assumed, of cour which he is to train.)	he following	pieces of	advance
					Extremely Useful	Nice to Have	Not Needed
	(a) To	tal military	flight hours			
	(b) Tir	me away from	military flying			
	(c	-	rcraft in whi qualified	lch he has been			
	(d) Whe	ether he had	been IP qualified			
	(е		ether he had qualified	been Instrument			
	(f) Whe	ether he had	been NOE qualified			
	(g		ount of inter	evening civilian			
	(h) Age	è				
14.	Is the	ere ar	ny other info	ormation which would be e	extremely usef	Eu1?	
Perf	ormanc	e Eval	luation				
15.				methods of evaluating a v to have been used by yo		performance	did
					Yes	No]
		(a)) Inflight	AAPART Hands-on Contac Checkride	:t		
				Gradeslip (DA Form 45	07R)		
				Other			1
		(b)) SFTS	Gradeslip (DA Form 45	507R)		1
				Other			1

(c) Ground Annual Written Examination -10 Test (open book) -10 Test (closed book) Other When a Reservist returns to flying after a long time away, his performance on his initial checkride may fall a long way short of that required to pass an AAPART "Hands-on" Contact Checkride. One problem facing the Evaluator is to describe the performance in terms which will be useful to another IP. Several condidate measures have been proposed, two of which are described below. Please comment on these massures and describe any other measure which you think would be more useful. a. Candidate Measure A. The Evaluator gives an estimate of the number of flight training hours required before the Reservist would be able to pass an AAPART "Hands-on" Contact Checkride. Comment: b. Candidate Measure B. The Evaluator would describe the Reservist's performance according to a standard set of descriptors. As an example, he would choose the most appropriate of the following six phrases: (0) Skill or knowledge of procedures almost totally absent. (1) Unable to perform most maneuvers without considerable IP assistance. (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional IP assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride.					Yes No
When a Reservist returns to flying after a long time away, his performance on his initial checkride may fall a long way short of that required to pass an AAPART "Hands-on" Contact Checkride. One problem facing the Evaluator is to describe the performance in terms which will be useful to another IP. Several candidate measures have been proposed, two of which are described below. Please comment on these maesures and describe any other measure which you think would be more useful. a. Candidate Measure A. The Evaluator gives an estimate of the number of flight training hours required before the Reservist would be able to pass an AAPART "Hands-on" Contact Checkride. Comment: b. Candidate Measure B. The Evaluator would describe the Reservist's performance according to a standard set of descriptors. As an example, he would choose the most appropriate of the following six phrases: (0) Skill or knowledge of procedures almost totally absent. (1) Unable to perform most maneuvers without considerable IP assistance. (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional IP assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride.		(c)	Ground	Annual Written Examination	
When a Reservist returns to flying after a long time away, his performance on his initial checkride may fall a long way short of that required to pass an AAPART "Hands-on" Contact Checkride. One problem facing the Evaluator is to describe the performance in terms which will be useful to another IP. Several candidate measures have been proposed, two of which are described below. Please comment on these maesures and describe any other measure which you think would be more useful. a. Candidate Measure A. The Evaluator gives an estimate of the number of flight training hours required before the Reservist would be able to pass an AAPART "Hands-on" Contact Checkride. Comment: b. Candidate Measure B. The Evaluator would describe the Reservist's performance according to a standard set of descriptors. As an example, he would choose the most appropriate of the following six phrases: (0) Skill or knowledge of procedures almost totally absent. (1) Unable to perform most maneuvers without considerable IP assistance. (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional IP assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride.				-10 Test (open book)	
When a Reservist returns to flying after a long time away, his performance on his initial checkride may fall a long way short of that required to pass an AAPART "Hands-on" Contact Checkride. One problem facing the Evaluator is to describe the performance in terms which will be useful to another IP. Several candidate measures have been proposed, two of which are describe below. Please comment on these maesures and describe any other measure which you think would be more useful. a. Candidate Measure A. The Evaluator gives an estimate of the number of flight training hours required before the Reservist would be able to pass an AAPART "Hands-on" Contact Checkride. Comment: b. Candidate Measure B. The Evaluator would describe the Reservist's performance according to a standard set of descriptors. As an example, he would choose the most appropriate of the following six phrases: (0) Skill or knowledge of procedures almost totally absent. (1) Unable to perform most maneuvers without considerable IP assistance. (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional IP assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride.				-10 Test (closed book)	
his initial checkride may fall a long way short of that required to pass an AAPART "Hands-on" Contact Checkride. One problem facing the Evaluator is to describe the performance in terms which will be useful to another IP. Several candidate measures have been proposed, two of which are described below. Please comment on these maesures and describe any other measure which you think would be more useful. a. Candidate Measure A. The Evaluator gives an estimate of the number of flight training hours required before the Reservist would be able to pass an AAPART "Hands-on" Contact Checkride. Comment: Comment: (0) Skill or knowledge of procedures almost totally absent. (1) Unable to perform most maneuvers without considerable IP assistance. (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional IP assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride.				Other	
flight training hours required before the Reservist would be able to pass an AAPART "Hands-on" Contact Checkride. Comment: b. Candidate Measure B. The Evaluator would describe the Reservist's performance according to a standard set of descriptors. As an example, he would choose the most appropriate of the following six phrases: (0) Skill or knowledge of procedures almost totally absent. (1) Unable to perform most maneuvers without considerable 1P assistance. (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional 1P assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride.	his i AAPAR descr candi Pleas	nitial T "Han ibe th date m	checkride m ds-on" Conta e performance easures have ent on these	may fall a long way short of the act Checkride. One problem facted in terms which will be useful been proposed, two of which are massures and describe any other.	at required to pass an ing the Evaluator is to il to another IP. Several are described below.
 b. Candidate Measure B. The Evaluator would describe the Reservist's performance according to a standard set of descriptors. As an example, he would choose the most appropriate of the following six phrases: (0) Skill or knowledge of procedures almost totally absent. (1) Unable to perform most maneuvers without considerable 1P assistance. (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional 1P assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride. 	f	light n AAPA	training hou RT "Hands-or	rs required before the Reservi	mate of the number of st would be able to pass
 mance according to a standard set of descriptors. As an example, he would choose the most appropriate of the following six phrases: (0) Skill or knowledge of procedures almost totally absent. (1) Unable to perform most maneuvers without considerable 1P assistance. (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional 1P assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride. 	C	Onment	·		
 mance according to a standard set of descriptors. As an example, he would choose the most appropriate of the following six phrases: (0) Skill or knowledge of procedures almost totally absent. (1) Unable to perform most maneuvers without considerable 1P assistance. (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional 1P assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride. 					
 (2) Can perform most maneuvers, but always needs some IP assistance. (3) Rough or slow, but can perform all maneuvers with only occasional IP assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride. 					
 (3) Rough or slow, but can perform all maneuvers with only occasional IP assistance. (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride. 	m c	ance a hoose	ccording to the most app	a standard set of descriptors. propriate of the following six	As an example, he would phrases:
 (4) Can perform all maneuvers without IP assistance - not unsafe, but not yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride. 	m c	ance a hoose (0) Sk	ccording to the most app ill or knowl	a standard set of descriptors. propriate of the following six ledge of procedures almost total	As an example, he would phrases:
yet up to AAPART standard. (5) Proficient - unquestionably safe, capable of passing an AAPART "Hands on" Contact Checkride.		ance a hoose (0) Sk (1) Un	ccording to the most app ill or knowl able to peri	a standard set of descriptors. propriate of the following six ledge of procedures almost tota	As an example, he would phrases: ally absent. asiderable IP assistance.
on" Contact Checkride.	((ance a hoose (0) Sk (1) Un (2) Ca (3) Ro	ccording to the most appoint or knowledge to perform monder to great monder to the control of th	a standard set of descriptors. propriate of the following six dedge of procedures almost total form most maneuvers without const maneuvers, but always needs	As an example, he would phrases: ally absent. asiderable IP assistance. a some IP assistance.
Comment:	()	ance a choose (0) Sk (1) Un (2) Ca (3) Ro	ccording to the most appoint or knowledge to perform months of slow, assistance.	a standard set of descriptors. propriate of the following six dedge of procedures almost total form most maneuvers without const maneuvers, but always needs but can perform all maneuvers.	As an example, he would phrases: ally absent. asiderable IP assistance. a some IP assistance. s with only occasional IP
Odinical Company of the Company of t	()	(1) Un (2) Ca (3) Ro	ccording to the most appoint or knowledge to perform months assistance. In perform all yet up to Afficient - to	a standard set of descriptors. Propriate of the following six dedge of procedures almost total form most maneuvers without const maneuvers, but always needs but can perform all maneuvers. I maneuvers without IP assistance. PART standard.	As an example, he would phrases: ally absent. asiderable IP assistance. s some IP assistance. s with only occasional IP
	() () () () () () () () () ()	(1) Un (2) Ca (3) Ro (4) Ca	ccording to the most appoint or knowledge to perform months of slow, assistance. In perform all yet up to Afficient - to on "Contact":	a standard set of descriptors. Propriate of the following six dedge of procedures almost total form most maneuvers without compost maneuvers, but always needs but can perform all maneuvers. I maneuvers without IP assistant APART standard. Imquestionably safe, capable of Checkride.	As an example, he would phrases: ally absent. asiderable IP assistance. some IP assistance. swith only occasional IP ance - not unsafe, but not passing an AAPART "Hands

APPENDIX C

c. <u>u</u>		sure (please describe	+	
			<u>,</u>	
, -, -, -, -, -, -, -, -, -, -, -, -,		——————————————————————————————————————	, ;	

		•		
What re	cords w	ere kept of the Reserv	ists progress?	•
(a)	ATM F	older	Yes	No
(b)	Other	(please describe)	,	No
			Yes	No
			Yes	
			Yes	No
Which c			Yes	No
Which c	ommand/a	agency now has these i	Yesecords?	No
Which c	ommand/a	agency now has these i	ecords?eservists' trainin	g? YesNo

APPENDIX C

•		Skill (re)acquired easily BOX 1		Skill practiced very in- frequently or not at all BOX 3
(a)	Preflight inspection			
(b)	Engine run-up and shut-down			
(c)	Radio use (tuning, voice comm)			
(d)	Hovering operations			
(e)	Normal T/O and approach			
(f)	Acceleration and Deceleration			
(g)	Basic instrument control			
(h)	Tactical instrument navigation (NDB and Dead Reckoning)		·	
(i)	Simulated systems malfunction		:	
,	(1) Straight-in (standard) auto- rotation			
	(2) Low level autorotation		\	
	(3) Autorotation from a hover			
	(4) Autorotation with turn			
	(5) Hydraulic system malfunction	-	<u> </u>	
	(6) Antitorque failure			\
	(7) Other system malfunction			
(1)	Nap-of-the-Earth (NOE) maneuvering	-	-	
(k)	NOE navigation			
(1)	Maximum load operations	\		·
(m)	Confined area landing and T/O			
(n)	Pinnacle and slope operation			
(o)	Night flight			

	AΡ	P	FI	VI)	י דו	C
--	----	---	----	-----	------	---

c1	there any teaching aids (SFTS, programmed texts, films, tapes, etc.) which there which might have been useful? If so, please describe. (This indes both aids which you know to be in existence, but didn't have, and thought have yet to be produced.)
u	a van ann armanta an the Besamutated materials
/BN	e you any comments on the Reservists' motivation?
	would you use Reservists in the event of mobilization?
 Do	you have any further suggestions as to how this program might be improved
	•
	you have any further suggestions as to how this program might be improved
	you have any further suggestions as to how this program might be improved
	you have any further suggestions as to how this program might be improved
	you have any further suggestions as to how this program might be improved
	you have any further suggestions as to how this program might be improved
	you have any further suggestions as to how this program might be improved
	you have any further suggestions as to how this program might be improved

Please check to see that you haven't missed any questions, and then place this in the stamped, addressed envelope and mail it as soon as possible.

Thank you very much for your cooperation. It is appreciated!



DEPARTMENT OF THE ARMY ICADQUARTERS. UNITED STATES ARMY FORCES COMMAND FORT MCPHERSON, GEORGIA 30330

AFOP-AV

SUBJECT: IRR Aviation Counterpart Training Program

SEE DISTRIBUTION

- 1. The US Army Research Institute (ARI) was requested by FORSCOM to develop training recommendations for the IRR aviators that have been assigned to certain FORSCOM installations. This effort will lead to a more complete and standard program that will enhance the "trainers" efforts to produce the best possible trained IRR-aviator.
- 2. In cooperation with ARI, the data requested hereunder is critical to the development of this all-important program of which addressees are requested to give prompt and accurate attention.———
- 3. Your cooperation in producing usable data for ARI is appreciated of which many throughout FORSCOM will benefit.

COL, GS

FORSCOM Aviation Officer

```
DISTRIBUTION
I US AHMY WESTERN COMMAND ATTN: APPL
 1 HQUA ATTN: DAAG-ED
 1 HG. TCATA ATTN: ATCAT-OP-U
2 HQDA RESEARCH AND STUDIES OFC
 1 MILITARY OCCUPATIONAL DEVELOPMENT DIV DAPC-MSP-O. RM 852C HOFFMAN BLDG 1
 4 DASD (MRA AND L)
 1 HQDA ODCSPER
 1 HEADQUARTERS, US MARINE CORPS ATTN: CODE MPI-20
   US ARMY EUROPE AND SEVENTH ARMY
 2 HQ THADOC TECHNICAL LIBRARY
 I MILLIARY OCCUPATIONAL DEVELOPMENT DIRECTORATE ATTN: ATZI-NCR-MS-M. RM 3N33 HOFFWAN BLDG II
   DATA ANALYSIS DIVISION ATTN: ATZI-NCR-MD. HOFFMAN BLDG II
 I HODA ARMY FORCE MODERNIZATION COORDINATION OFFICE
   1230 USARCOM RESERVE CENTER
 I US ARMY SOLDIER SUPPORT CENTER ATTN: ATSG-HDD (DR. CAVINESS)
 1 DIRECTORATE OF TRAINING ATTN: ATZQ-T
1 DIRECTORATE OF COMBAT DEVELOPMENTS ATTN: ATZQ-D
 1 HQDARCOM MARINE CORPS LIAISON OFC
1 DEPARTMENT OF THE ARMY US ARMY INTELLIGENCE + SECURITY COMMAND
1 ARTADS ATTN: DRCPM-TDS-TD
 1 USA FORCES COMMAND
 1 US MILITARY DISTRICT OF WASHINGTON OFC OF EQUAL OPPORTUNITY
1 NAVAL CIVILIAN PERSONNEL COMD SOUTHERN FLD DIV
20 ARI I TAISON OFFICE
 1 7TH ARMY TRAINING COMMAND
 1 HOIM. OCS STUDY OFFICE
1 U.S. NAVY TRAINING ANALYSIS EVALUATION GROUP
   USACHEC ATTN: ATEC-EX-E HUMAN FACTORS
   INTER-UNIV SEMINAR ON ARMED FORCES + SOC
OASA (RDA) DEPUTY FOR SCIENCE AND TECHNOLOGY
 1 OFC OF NAVAL RESEARCH /
   AFHREZLRT
   AF HRI /LREG
   NAVY PERSONNEL R AND D CENTER DIRECTOR OF PROGRAMS
OFC OF NAVAL RESEARCH PERSONNEL AND THAINING RESEARCH PROGRAMS
   NAVAL PERSONNEL R + D CENTER
   NAVAL PERSONNEL R + D CENTER / D CENTER MED NAVAL AEROSPACE MEDICAL RSCH LAB AEROSPACE PSYCHOLOGY DEPARTMENT USA FRADOC SYSTEMS ANALYSIS ACTIVITY ATTN: ATAA-TCA HEADQUARTERS, COAST GUARD CHIFF, PSYCHOLOGICAL RSCH BR USA FRADING HUARD ATTN: ATTG-ATB-TA
   USA MATERIFL SYSTEMS ANALYSIS ACTIVITY
                                                             ATTN: DRXSY-C
    HATTELLE-COLUMBUS LABORATORIES TACTICAL TECHNICAL OFC
 1 USA COLD REGIONS 1EST CEN ATTN: STECR-OP
1 HO WHAIR DIV OF YEUROPSYCHIATRY
1 USA RSCH DEVEL + STANDARDIZA GP, U.K.
   HQDA /
   USAAHL LIHRARY
    SEVIELE RESEARCH CORPORATION
   USA HADDOC SYSTEMS ANALYSIS ACTIVITY ATTN: ATAA-SE (TECH LIBRARY)
UNIFORMED SERVICES UNIT OF THE HEALTH SCT DEPARTMENT OF PSYCHIATRY
GRONINGER | IBRARY ATTN: ATZF-RS-L BLDG 1313
    CENTER FOR NAVAL ANALYSIS
    NAVAL PERSONNEL R AND U CEN LIBRARY ATTN: CODE PIGE
    USA ACADEMY OF HEALTH SCIENCES STIMSON LIBRARY (DOCUMENTS)
   SCHOOL OF SYSTEMS AND LOGISTICS /
DEPARTMENT OF THE NAVY TRAINING ANALYSIS AND EVALUATION GP
  I NATIONAL CENTER FOR HEALTH STATISTICS
    USHA DEPT OF DEHAVIORAL SCI AND LEADERSHIP
```

e a la se

1 OF DOMINION UNIVERSITY PERFORMANCE ASSESSMENT LABORATORY 1 USA COMMAND AND CENERAL STAFF COLLEGE ATTN: LIBRARY

19.74

```
1 USA TRANSPORTATION SCHOOL USA TRANSP TECH INFO AND RSCH CEN
 I USA ADMINCEN TECHNICAL RESEARCH BRANCH LIBRARY
 1 USA FIELD ARTY HU
   NAT CLEARINGHOUSE FOR MENTAL HEALTH INFO PARKLAWN BLDG
 1 U OF TEXAS CEN FOR COMMUNICATION RSCH
   INSTITUTE FOR DEFENSE ANALYSES
   USA IRAINING SUPPORT CENTER ATTN: ATIC-DST-PA
 I USA MOBILITY EQUIPMENT R AND D COMMAND ATTN: DRUME-ZG
   DA US ARMY RETRAINING BUE RESFARCH + EVALUATION DIVISION
   USA AEROMEDICAL RESEARCH LAB SCIENTIFIC INFORMATION CENTER
   US MILITARY ACADEMY DEPT. OF HISTORY, BLDG 601
   MARINE CORPS INSTITUTE
   USAAVNC AND FT. RUCKER ATTN: ATZQ-ES
 1 US MILITARY ACADEMY DIRECTOR OF INSTITUTIONAL RSCH
   USAADS-LIBRARY-DUCUMENTS
  USA INTELLIGENCE CEN AND SCH ATTN: ATSI-DOTD-$F
 1 USA ARMOR SCHOOL ATTN: ATZK-TD
   NAVAL POSTGRADUATE SCH ATTN: DUDLEY KNOX LIBRARY (CODE 1424)
   USA TRANSPORTATION SCHOOL DEPUTY ASST. COMMANDANT EDUCA. TECHNOLOGY
   USA SIGNAL SCHOOL AND FT. GORDON ATTN: ATZH-ET
   USA ARMOR CENTER + FT. KNUX OFFICE OF ARMOR FORCE MGT + STANDARDIZATION
   USA SIGNAL SCHOOL + FT. GORDON EDUCATIONAL TECHNOLOGY DIVISION
   HQ ATC/XPTD TRAINING SYSTEMS DEVELOPMENT
   US ARMY ARMOR CENTER ATTN: ATTK-TU-PMO
   USA WUARTERMASTER SCHOOL DIRECTURATE OF TRAINING DEVELOPMENTS
   US CHAST GUARD ACADEMY
   USA TRANSPORTATION SCHOOL DIRECTORATE OF TRAINING + DOCTRINE
   USA INFANTRY SCHOOL LIBRARY
 1 USA MP + CHEM SCH/TNG CEN + FT. MCCLELLAN ATTN: ATZN-PTS
1 USA MP + CHEM SCH/TNG CEN + FT. MCCLELLAN DIR. COMBAT DEVELOPMENT
1 USA MP + CHEM SCH/TNG CEN + FT. MCCLELLAN DIR. TRAINING DEVELOPMENT
 1 USA MP + CHEM SCHITNG CEN + FT. MCCLELLAN ATTN: ATZN-MP-ACE
 1 USA INSTITUTE OF ADMINISTRATION ATTN: RESIDENT TRAINING MANAGEMENT
 1 USA FIELD ARTILLERY SCHOOL MORRIS SWETT LIBRARY
 1 USA INSTITUTE OF ADMINISTRATION ACADEMIC LIBRARY
 1 USA ENGINEER SCHOOL LIBRARY AND LEARNING RESOURCES CENTER
 1 USA ARMOR SCHOOL (USARMS) ATTN: LIBRARY
 1 US ARMY INTELLIGENCE CENTER + SCHOOL ATTN: ATSI-TO
 1 DEPARTMENT OF THE AIR FORCE ATR UNIVERSITY LIBRARY (ATC)
 1 HQ THADOC TRAINING DEVELOPMENT INSTITUTE
                     BRITISH DEFENCE STAFF
 2 BRITISH EMBASSY
 2 CANADIAN JOINT STAFF
   COLS (W) LTBRARY
 I FRENCH ARMY ATTACHE
 1 AUSTRIAN EMBASSY DEFENSE, MILITARY AND AIR ATTACHE
 3 CANADIAN DEFENCE LIAISON STAFF ATTN: COUNSELLOR, DEFENCE R AND D
 1 ROYAL NETHERLANDS EMBASSY MILITARY ATTACHE
 2 CANADIAN FORCES PERSONNEL APPL RSCH UNIT
 1 ARMY PERSONNEL RESEARCH ESTABLISHMENT
 6 LIBRARY OF CONGRESS EXCHANGE AND GIFT DIV
  1 DEFENSE TECHNICAL INFORMATION CEN ATTN: DTIC-DDA-2
140 LIBRARY OF CONGRESS UNIT DOCUMENTS EXPEDITING PROJECT
 I US GOVERNMENT PRINTING OFC LIBRARY, PUBLIC DOQUMENTS DEPARTMENT I US GOVERNMENT PRINTING OFC LIBRARY AND STATUTORY, LIB DIV (SLL)
  1 THE ARMY LIBRARY ATTN: ARMY STUDIES SEC
  3 ROYAL ARMY EDUCATIONAL CORPS CENTRE ARMY SCHOOL OF TRAINING SUPPORT
```